Dear Prof. ,

I hope this email finds you well.

Currently, I have several papers under review with PNAS, and I am in the process of preparing other manuscripts for submission to PNAS.

I wish to briefly introduce them, the first, titled "Robust estimations from distribution structures: Mean," (REDS: Mean, https://www.overleaf.com/9191643764cxfnpqcdsnqn#11ea72) proposes a novel semiparametric method to derive a robust mean estimator, converging to the median Hodges-Lehmann mean as the optimal semiparametric mean estimator. The second, "Robust estimations from distribution structures: Central Moments," (REDS: Central Moments, https://www.overleaf.com/3675369991nhkcyzdmzyjm#fd8baf) presents a technique for computing central moments robustly and reveal the unimodal structure of the central moment kernel distributions. The third, "Robust estimations from distribution structures: Invariant Moments," (REDS: Invariant Moments, https://www.overleaf.com/4953272358nyhpsddkzjfb#3c0a3a) presents a near-optimum technique for computing moments robustly, accurately, and efficiently. The fifth, titled "Robust estimations from distribution structures: Nonasymptotic," (REDS: Nonasymptotic, https://www.overleaf.com/6337616788yhzzyvdwcrrk#4fc8e8) introduces a method to decompose the randomness structure into several quasi-random variables, which can greatly facilitate the estimation of finite sample bias.

Given your expertise in high-dimension statistics, I believe your insights could be invaluable. Also, I am wondering whether you are interested in extending the methods in REDS: Invariant moments to high-dimensional.

Here is a very brief introduction. The fourth, "Robust estimations from distribution structures: High-dimensional," (REDS: High-dimensional , https://www.overleaf.com/6228448821qqvcfbvwjwfc#9e0b31). However, since I am currently busy with other papers, and due to my limited knowledge in this field, I am looking for others to do this work, while I myself will not require authorship for this paper, but I can help for something if needed.

Your time and consideration are deeply appreciated. I am eager to receive your insights and perhaps engage in a fruitful collaboration that will enhance the impact of our shared research endeavors.

Sincerely,

Tuobang Li